Statewide Average Highway Improvement Costs - 2003

Imrprovement Type	Cost/Mile (\$2003)	General Notes		
Resurface ¹⁻⁵		1. Costs DO NOT include design engineering, these costs are typically 15% to 20% of construction costs.		
Rural (2-Lane)	\$215,000	1a. In general, use 20% design engineeing for construction projects < \$500,000, bridge replacements or complex projects		
Rural (Multilane)	\$420,000	2. Costs DO NOT include State design review, these costs are typlically 20% of design engineering, minimum \$5,000.		
Urban (2-Lane)	\$480,000	2a. This covers plan review, bid advertisement & printing/mailing of plans to bidders.		
Urban (Multilane)	\$725,000	3. Costs are AVERAGES and include construction engineering, real estate & utility relocations.		
Recondition - Minor ¹⁻⁵		3a. Costs will vary depending on project complexity.		
Rural (2-Lane)	\$360,000	3b. Costs DO NOT include extraordinary items such as: traffic signals, HAZMAT mitigation, railroad crossings etc		
Rural (Multilane)	\$520,000	3c. Costs are expressed in 2003 (current year) dollars		
Urban (2-Lane)	\$690,000	3d. For budgeting purposes, project current year to future year dollars using 3% inflation per year		
Urban (Multilane)	\$1,420,000	3e. Projects which contain: rock ecavation, challenging soils, complex traffic control/staging etccost/mile may be higher		
Recondition - Major ¹⁻⁵		4. Rural Roadway - presence of side dtichs, no curb & gutter, no storm sewer and costs based on standard lane width of 12 feet.		
Rural (2-Lane)	\$555,000	5. Urban Roadway - presence of curb & gutter and costs based on pavement width from curb face - curb face		
Rural (Multilane)	\$1,750,000	6. Unit Price Costs are based on statewide averages from WisDOT lettings		
Urban (2-Lane)	\$975,000	7. Costs DO NOT include geometric improvements to the intersection, includes traffic signal hardware & installation		
Urban (Multilane)	\$3,250,000	7a. Secure a qualified design consultant familair with traffic signal design		
Pavement Replacement ¹⁻⁵		8. General cost to produce, haul, and place asphaltic concrete pavement, costs DO NOT include CABC or prep of foundaion		
Rural (2-Lane)	\$295,000			
Rural (Multilane)	\$875,000	Miscellaneous Improvements & Unit Price Costs ⁶		
Urban (2-Lane)	\$720,000	Signalization of Intersection ⁷	\$85,000 - \$100,000 EACH	
Urban (Multilane)	\$1,000,000	Overhead Lighting Pole Assembly (150' ave spacing)	\$1,800 EACH	
Reconstruction ¹⁻⁵		Overhead Lighting - Wire & Conduit	\$3.50/L.F.	
Rural (2-Lane)	\$1,205,000	Mill/AC Overlay/CABC Shoulders	\$75,000 - \$100,000/MILE	
Rural (Multilane)	\$2,300,000	AC Overlay - CRC w/County	\$60,000-\$70,000/MILE	
Urban (2-Lane)	\$2,100,000	AC Shoulders Only	\$12,000/MILE	

Structure Costs Only

\$90/S.F.

\$75/S.F.

\$45/S.F.

\$12/S.F.

\$900/L.F./BARREL

\$4,000,000

Project Costs

\$130/S.F.

\$90/S.F.

\$60/S.F.

\$15/S.F.

\$1100/L.F./BARREL

\$25-30/S.F.

\$70/S.F.

\$30/S.F.

Urban (Multilane)

Bridge Replacement < 1500 SF

Bridge Replacement > 1500 SF

Bridge Deck Replacement

Bridge Deck Overlay

MSE (Mech. Stab. Earth)

Box Culverts

Cast-in-Place

Retaining Walls¹⁻³
Split Block

3ridge¹⁻³

Signalization of Intersection Overhead Lighting Pole Assembly (150' ave spacing) \$1,800 EACH	miscellaneous improvements & Unit Price Costs			
Overhead Lighting - Wire & Conduit Mill/AC Overlay/CABC Shoulders AC Overlay - CRC w/County AC Shoulders Only Asphaltic Concrete Pavement® PCC Joint Repair (through two travel lanes) Retro-Fit Dowel Bars Milling - AC Pavement Diamond Grinding PCC Pavement PCC Pavement \$2.00 - \$2.50/S.Y. Common Excavation PCC Pavement - 9" S2.00 - \$2.50/C.Y. Storm Sewer Pipe - 18" Inlets - Type 3 (250' ave spacing) Inlet Covers - Type H Manholes - Type 3 (@ all junctions) Manhole Covers - Type L Concrete Sidewalk - 4" Concrete Sidewalk - 6" Concrete Sidewalk - 6" Concrete Driveway Beam Guard Beam Guard Reinforced Concrete Culvert Pipe - 36" Reinforced Concrete Culvert Pipe Endwall - 36" Reinforced Concrete Culvert Pipe Endwall - 36" \$725 EACH	Signalization of Intersection ⁷	\$85,000 - \$100,000 EACH		
Mill/AC Overlay/CABC Shoulders \$75,000 - \$100,000/MILE AC Overlay - CRC w/County \$60,000-\$70,000/MILE AC Shoulders Only \$12,000/MILE Asphaltic Concrete Pavement [®] \$60/TON PCC Joint Repair (through two travel lanes) \$850/joint Retro-Fit Dowel Bars \$30 EACH Milling - AC Pavement \$1.50 - \$2.00/S.Y. Diamond Grinding PCC Pavement \$2.00 - \$2.50/S.Y. Common Excavation \$2.50/C.Y. Crushed Aggregate Base Course \$7.00/TON PCC Pavement - 9" \$20.00/S.Y. Storm Sewer Pipe - 18" \$32/L.F. Inlets - Type 3 (250' ave spacing) \$600 EACH Inlet Covers - Type H \$300 EACH Manholes - Type 3 (@ all junctions) \$2,150 EACH Manhole Covers - Type L \$245 EACH Concrete Sidewalk - 4" \$2.25/S.F. Concrete Sidewalk - 6" \$2.80/S.F. Concrete Driveway \$24.00/S.Y. Beam Guard \$10.00/L.F. Beam Guard Anchorages & Grading \$2,500/End Treatment Culvert Pipe - 36" \$350 EACH Reinforced Concre	Overhead Lighting Pole Assembly (150' ave spacing)	\$1,800 EACH		
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Asphaltic Concrete Pavement \$60/TON	AC Overlay - CRC w/County			
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Inlets - Type 3 (250' ave spacing)	PCC Pavement - 9"	\$20.00/S.Y.		
Inlet Covers - Type H	Storm Sewer Pipe - 18"	\$32/L.F.		
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Reinforced Concrete Culvert PipeEndwall - 36" \$725 EACH		\$350 EACH		
	Reinforced Concrete Culvert Pipe - 36"	***		
Rinran \$45/C Y	Reinforced Concrete Culvert PipeEndwall - 36"			
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